May 23, 2014

Pam King
Washington Holdings
600 University Street, Suite 2820
Seattle, WA 98101

RE: Water Quality Testing, EPA Tenant Improvement Project
Park Place Building
Sampling Event #4 -Floor 16
1200 6th Avenue
Seattle, Washington

RGA Job# WAHLD35088

On May 20, 2014, Emily Kahler, Industrial Hygienist for RGA Environmental, Inc. (RGA) conducted drinking water testing for lead at the above captioned site. Testing in accordance with EPA-812-B-94-002 was conducted to collect samples from water sources in the Snack Bar and Service Area not previously sampled on floor 16. Repeat samples were also collected from the Maternal Wellness Room on floor 16 and at the Service Connection located on Parking Level 1. The purpose of the testing was to evaluate the drinking water sources following flushing of the water sources. Emily Kahler was escorted by the Building Chief Engineer, Toni Carroll from the Park Place building.

SAMPLING PROCEDURES

A total of ten (10) drinking water samples were collected during the sampling event. Samples were collected in sample bottles provided by the Aquatic Research, Inc. (250 ml, polyethylene with nitric acid preservative). Samples were analyzed for lead in drinking water using EPA Method 200.8.[1] Drinking water samples were collected from the service main (P1), the "Grab and Go" Cafeteria Service Area, and the Maternal Wellness room(16th floor) at the Park Place building in Seattle, Washington.

The sampling protocol for the Service and Snack Bar equipment water lines in the "Grab & Go" Cafeteria and the Maternal Wellness sink, consisted of a "first draw" sample (first water out of the tap following at least 8 hours of non-use) and a "secondary draw" sample (water collected after 30 seconds of flushing).

The sampling protocol for the Service Connection/ Service Main consisted of opening the tap closest to the service connection located in the garage (P1) and waiting for the water temperature to change from warm to cold before collecting the sample for the Service Connection. The water was then flushed for an additional 3 minutes following the collection of the Service Connection sample before collecting the Service Main Sample.

One sample set was collected at the service connector and water main located on the south wall of P1. Four sample sets were collected on floor 16 (one set from the Maternal Wellness sink, and one set each from water sources for the Service Area Espresso Machine, the Snack Bar Beverage Machine and the Snack Bar Ice Machine in the "Grab & Go" Cafeteria).

[1] The water samples collected were submitted within two hours of collection to Aquatic Research, Inc. (lead) in Seattle, Washington for analysis.

SAMPLE RESULTS

Table 1 below presents the sample results for lead samples collected on May 20th, 2014.

Table 1—Lead Water Sample Results – May 14, 2014

Location	SAMPLE ID	Lead (Pb) µg/l)	Result
FLOOR 16			
Maternal Wellness Room	16-16MW-FD-1-35	1.1	Pass
	16-16MW-SD-1-36	<1.0	Pass
Service Area Espresso Machine	16-SAEM-FD-1-37	<1.0	Pass
	16-SAEM-SD-1-38	1.3	Pass
Snack Bar Beverage Machine	16-SBB-FD-1-39	18.0	**Action Required**
	16-SABB-SD-1-40	19.5	**Action Required**
Snack Bar Ice Machine	16-SBIM-FD-1-41	2.3	Pass
	16-SBIM-SD-1-42	<1.0	Pass
PARKING LEVEL 1			
Main Water	P1SC-P1SM-FD-1-43	<1.0	Pass
	P1SC-P1SM-SD-1-44	<1.0	Pass
EPA Standard*		**0 AL: 15 µg/L**	

*EPA Drinking Water Maximum Contaminant Levels

FD=First Draw
SD=Second Draw
16MW=Maternal Wellness Room (16TH Floor)
P1SC/SM=Service Connector/Main (Garage)
SAEM= Service Area Espresso Machine
SBB= Snack Bar Beverage Machine
SBIM= Snack Bar Ice Machine

CONCLUSIONS

Five of the ten water samples collected contained no detectable concentrations of lead (above 1 µg/L). Three of the samples contained lead concentrations between 1 and 15 µg/L. No remedial or mitigation action is required for locations with sample results below the Drinking Water action level. Two samples were above the action level. The two samples above the action level were the first and second draw samples from the water source for the snack bar beverage machine. Water from this source should not be used until the source of lead is determined and mitigated.

LIMITS OF SURVEY

This report does not represent all conditions at the subject site as it only reflects the information gathered from specific locations. Observation or sampling of other work areas was not within the scope of RGA's work and was not performed.

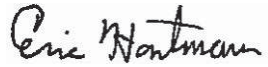
This report was prepared pursuant to the contract RGA has with the client. Unauthorized reliance on or use of this report, including any of its information or conclusions, will be at third party's risk. For the same reasons, no warranties or representations, expressed or implied in this report, are made to any such third party.

RGA appreciates the opportunity to provide you with technical support on this project. If you have any questions, please contact the undersigned at 206-281-8858.

Report Prepared by,

Emily Kahler
Industrial Hygienist
RGA Environmental, Inc.

Report Reviewed by,



Eric Hartman, CIH
Senior Project Manager
RGA Environmental, Inc.

Attachments:
Lab Reports
Sample Location Maps

IEH - AQUATIC RESEARCH

LABORATORY & CONSULTING SERVICES

3927 AURORA AVENUE NORTH, SEATTLE, WA 98103

PHONE: (206) 632-2715 FAX: (206) 632-2417

CASE FILE NUMBER: MIS032-91 **PAGE 1**

REPORT DATE: 05/22/14

DATE SAMPLED: 05/20/14 **DATE RECEIVED:** 05/20/14

FINAL REPORT, LABORATORY ANALYSIS OF SELECTED PARAMETERS ON WATER SAMPLES FROM RGA ENVIRONMENTAL

CASE NARRATIVE

Ten water samples were received by the laboratory in good condition and analyzed according to the chain of custody. No difficulties were encountered in the preparation or analysis of these samples. Sample data follows while QA/QC data is contained on the subsequent pages.

SAMPLE DATA

SAMPLE ID	LEAD (ug/L)
16-16MW-FD-1-35	1.1
16-16MW-SD-1-36	<1.0
16-SAEM-FD-1-37	<1.0
16-SAEM-SD-1-38	1.3
16-SBB-FD-1-39	18.0
16-SBB-SD-1-40	19.5
16-SBIM-FD-1-41	2.3
16-SBIM-SD-1-42	<1.0
P1SC-P1SM-FD-1-43	<1.0
P1SC-P1SM-SD-1-44	<1.0

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FINAL REPORT, LABORATORY ANALYSIS OF SELECTED PARAMETERS ON WATER SAMPLES FROM RGA ENVIRONMENTAL

QA/QC DATA

QC PARAMETER	LEAD (ug/L)
METHOD	EPA 200.8
DATE ANALYZED	05/20/14
REPORTING LIMIT	1.0
DUPLICATE	
SAMPLE ID	BATCH
ORIGINAL	12.9
DUPLICATE	13.1
RPD	1.54%
SPIKE SAMPLE	
SAMPLE ID	BATCH
ORIGINAL	12.9
SPIKED SAMPLE	63.5
SPIKE ADDED	50.0
% RECOVERY	101.20%
QC CHECK	
FOUND	52.4
TRUE	50.0
% RECOVERY	104.80%
BLANK	<1.0

RPD = RELATIVE PERCENT DIFFERENCE.
NA = NOT APPLICABLE OR NOT AVAILABLE.
NC = NOT CALCULABLE DUE TO ONE OR MORE VALUES BEING BELOW THE DETECTION LIMIT.
OR = RECOVERY NOT CALCULABLE DUE TO SPIKE SAMPLE OUT OF RANGE OR SPIKE TOO LOW RELATIVE TO SAMPLE CONCENTRATION.

SUBMITTED BY:

Damien Gadomski
Project Manager

MS032-91

Aquatic Research Inc.
3927 Aurora Avenue N, Seattle, WA 98103
P 206.632.2715 | F 206.632.2417
www.aquaticresearchinc.com

SHEET 1 OF 1

CHAIN-OF-CUSTODY RECORD

CLIENT:
SAMPLING DATE: 5/20/14
SAMPLERS: Emily Kahler

PROJECT ID: WAHLD35088
CASE FILE NO.:
DATA RECORDED BY: Emily Kahler

SAMPLE INFORMATION

PARAMETERS

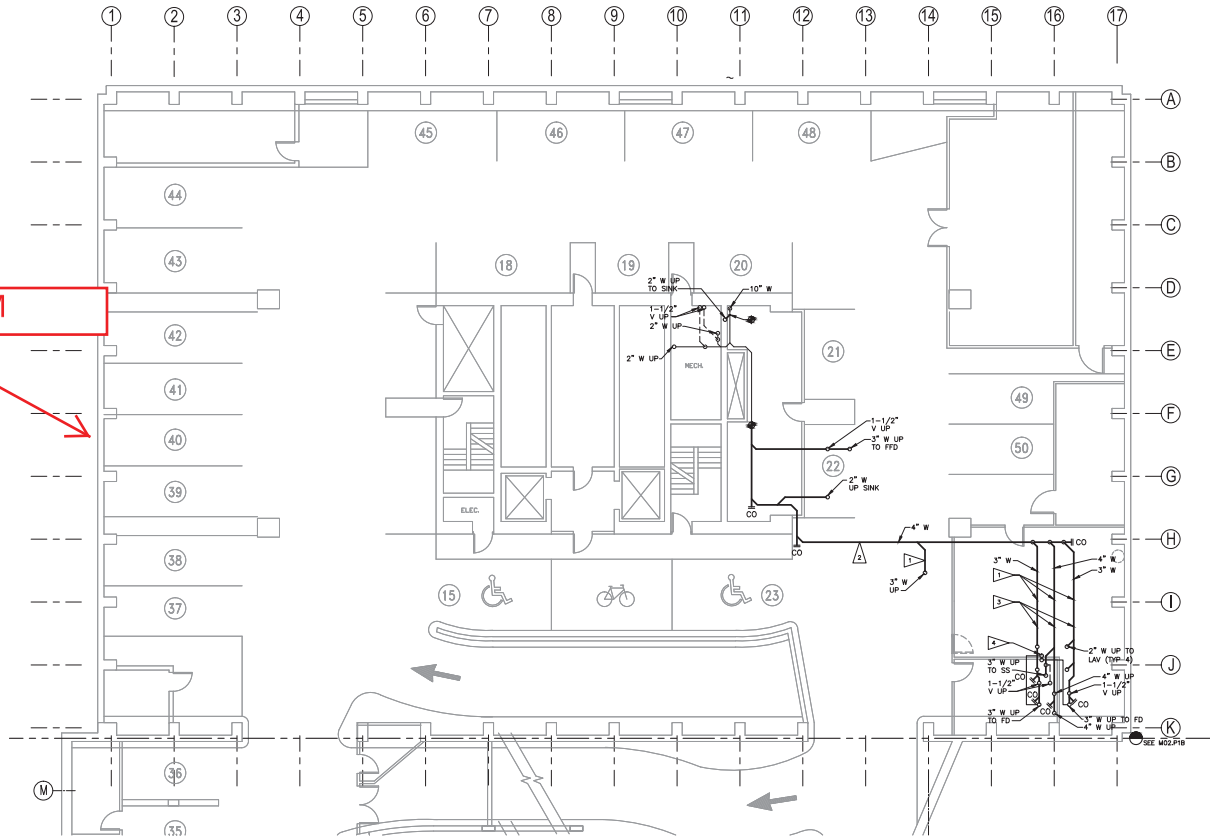
SAMPLE ID	DATE/TIME COLLECTED	Lead - EPA 200.8 Standard TAT	BOTT #	NOTES
16-16MW-FD-1-35	5/20/14 6:26	X		Standard TAT
16-16MW-SD-1-36	6:26	X		
16-SAEM-FD-1-37	6:35	X		
16-SAEM-SD-1-38	6:35	X		
16-SBB-FD-1-39	6:40	X		
16-SBB-SD-1-40	6:40	X		
16-SBIM-FD-1-41	6:45	X		
16-SBIM-SD-1-42	6:45	X		
PISC-PISM-FD-1-43	7:00	X		
PISC-PISM-SD-1-44	7:03	X		

	Relinquished By	Date/Time	Received By	Date/Time
Printed Name	Emily Kahler	5/20/14	Matt Carter	5/20/14
Signature		8:00 AM		9:10
Affiliation	RGA Environmental		ARI	

	Relinquished By	Date/Time	Received By	Date/Time
Printed Name				
Signature				
Affiliation				

Miscellaneous Notes (Hazardous Materials, Quick turn-around time, etc.): P.O. 16090
email - eric.hartman@rgaenv.com

P1SC-P1SM



SHEET NOTES:

1. FIELD VERIFY EXISTING CONDITIONS PRIOR TO STARTING CONSTRUCTION.
2. MAINTAIN VEHICLE CLEARANCES IN GARAGE. COORDINATE WITH BUILDING OWNER.
3. EXTEND EXISTING FIRE SUPPRESSION SYSTEM TO PROVIDE COMPLETE SPRINKLER COVERAGE FOR NEW FLOOR LAYOUT. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

FLAG NOTES:

1. ROUTE WASTE PIPING IN BEAM POCKET AND KEEP AS CLOSE TO STRUCTURE AS POSSIBLE.
2. MAINTAIN VEHICLE CLEARANCE HEIGHT ABOVE DRIVE. ROUTE WASTE PIPING 1/8" PER FOOT AND KEEP AS CLOSE TO STRUCTURE AS POSSIBLE.
3. CORE DRILL BEAM AT THIS LOCATION. COORDINATE FINAL LOCATION WITH STRUCTURAL.
4. 1/2" TRAP PRIMER UP TO ELECTRONIC MANIFOLD (TYP 2). ROUTE TRAP PRIMER PIPING TO ALL FLOOR DRAINS SERVING RESTROOMS.

Plan North

PLUMBING PLAN - PARKING LEVEL 1 - NORTH
SCALE: 1/8" = 1'-0"

1

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EPA - REGION 10

1200 6th Ave.
Levels 10-16 & 18-21
Seattle, WA 98101

Gensler
1200 6th Avenue Suite 500
Seattle, WA, 98101
Telephone 206.654.2100
Facsimile 206.654.2121

HARGIS
Hargis Engineers, Inc.
600 Stewart Street, Suite 1000 | Seattle, WA 98101
t | 206.448.3376 f| 206.448.4450 w | hargis.biz
ENGINEERS | MECHANICAL - ELECTRICAL - TELECOMMUNICATIONS

	Date & Issue Description	By	Check
	07/12/2011 50% CD / Pricing	AH	RE
	09/12/2011 95% CD / Pricing	AH	RE
	10/24/2011 100% CD	AH	RE
1	12/09/2011 100% CD. Conformed Set	AH	RE
	01/23/2013 95% Combined Set	AH	RE
	03/07/2013 100% Combined Set	AH	RE

Seal/Signature

Project Name
EPA - REGION 10

Project Number
32.8169.000

Description
PLUMBING PLAN - PARKING LEVEL 1 - NORTH

Scale
1/8" = 1'-0"

M02.P1A

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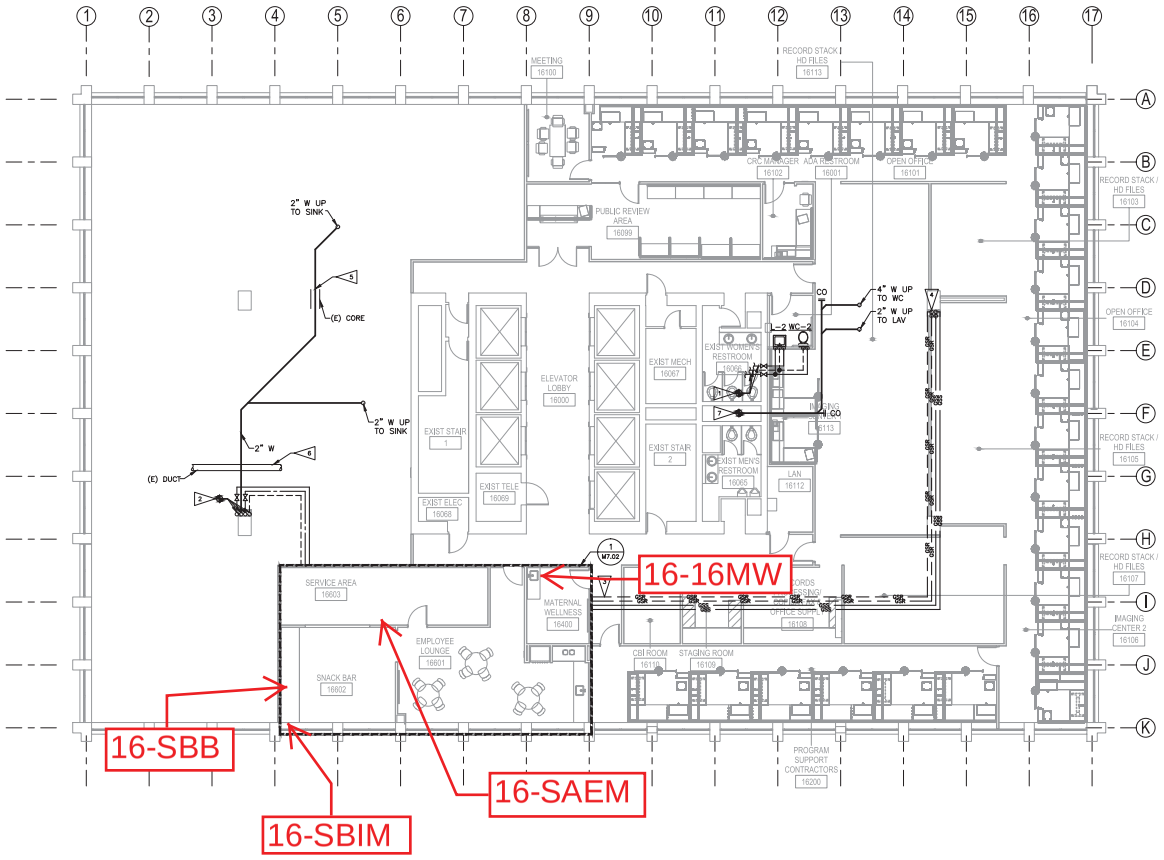
SHEET NOTES:

1. SLOPE ALL WASTE PIPING 1/4" PER FOOT.
2. FIELD VERIFY EXISTING CONDITIONS PRIOR TO STARTING CONSTRUCTION.
3. NEW WORK OCCURS IN OCCUPIED AREA. COORDINATE WITH OWNER BEFORE BEGINNING WORK.
4. EXTEND EXISTING FIRE SUPPRESSION SYSTEM TO PROVIDE COMPLETE SPRINKLER COVERAGE FOR NEW FLOOR LAYOUT. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

FLAG NOTES:

1. CONNECT NEW 3/4" HW, 1-1/4" CW AND 2" V TO EXISTING SERVICE.
2. CONNECT NEW 1" HW, 1-1/4" CW, 2" V AND 4" W TO EXISTING SERVICE. VERIFY POC LOCATION IN FIELD.
3. 2-1/2" GSS AND GSR LINES UP TO DC-1 AND DC-2 ON THE ROOF.
4. 2-1/2" GSS AND GSR LINES DOWN TO CRAC-1 AND CRAC-2 SERVING SERVER/NETWORK ROOM 13600.
5. ROUTE WASTE PIPING THROUGH (E) BEAM PENETRATION.
6. FIELD VERIFY EXISTING DUCTWORK ROUTING FOR POSSIBLE INTERFERENCES WITH NEW WASTE PIPING. PROVIDE OFFSETS IN DUCTWORK AND RELOCATE AS NECESSARY TO ACCOMMODATE THE SLOPE OF THE PIPING.
7. CONNECT 4" WASTE TO EXISTING WASTE RISER. VERIFY POC LOCATION IN FIELD.



Plan North

PLUMBING PLAN - 16TH FLOOR

SCALE: 1/8" = 1'-0"

1

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EPA - REGION 10

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ENGINEERS | MECHANICAL - ELECTRICAL - TELECOMMUNICATIONS

Date & Issue Description	By	Check
10/28/2011 50% CD / Pricing	AH	RE
02/09/2012 95% CD / Pricing	AH	RE
04/05/2012 100% CD / Pricing	AH	RE
01/23/2013 95% Combined Set	AH	RE
03/07/2013 100% Combined Set	AH	RE

Seal/Signature

Project Name

EPA - REGION 10

Project Number

32.8169.000

Description

PLUMBING PLAN - 16TH FLOOR

Scale

1/8" = 1'-0"

M02.16